

AMENDMENTS TO THE CLAIMS

WHAT IS CLAIMED IS:

1. (Currently Amended) A method to test a code segment of a source file, comprising:  
machine-rendering a source code skeleton in response to a selection of the code segment  
within the source file, wherein machine-rendering comprises choosing additional  
code from the source file, outside of the selection, to include in the source code  
skeleton to supplement the code segment for compilation;  
incorporating the code segment into the source code skeleton to generate a temporary  
source file;  
inserting a monitoring statement into the temporary source file, the monitoring statement  
to provide runtime data associated with the code segment; and  
compiling the temporary source file into a compiled program to output a result based  
upon the monitoring statement when the temporary source file is executed.
2. (Original) The method of claim 1, further comprising:  
executing the compiled program; and  
outputting the result in response to the executing, wherein the result is based upon the  
monitoring statement.
3. (Original) The method of claim 1, wherein the compiling comprises:  
initiating compilation of the temporary source file;  
attempting to resolve a compilation error; and  
outputting the compilation error.
4. (Original) The method of claim 3, further comprising assigning data to a variable to  
resolve the compilation error.
5. (Original) The method of claim 1, wherein the compiling comprises:  
initiating compilation of the temporary source file; and

resolving a compilation error encountered during compilation.

6. (Original) The method of claim 1, wherein machine-rendering comprises copying external code referenced by the code segment into the temporary source file.
7. (Original) The method of claim 1, wherein inserting the monitoring statement comprises prompting a programmer to select a variable to associate with the result and inserting an assignment statement into the temporary source file to capture the runtime data from the selected variable.
8. (Original) The method of claim 1, wherein inserting the monitoring statement comprises inserting a time stamp statement into the temporary source file to capture a time stamp.
9. (Currently Amended) A system to test a code segment of a source file, comprising:
  - a file creator to machine-render a source code skeleton to create a temporary source file in response to a selection of the code segment, ~~wherein the temporary source file is based upon the code segment~~ the file creator to machine-render the source code skeleton with additional code from the source file, outside of the selection, the file creator to choose the additional code from the source file based upon the code segment to supplement the code segment for compilation;
  - a code gatherer to copy ~~external code referenced by~~ the code segment into the temporary source file;
  - a code generator to insert a monitoring statement, the monitoring statement to provide runtime data associated with the code segment;
  - an adaptive compiler to compile the temporary source file into a compiled program to generate a result based upon the monitoring statement;
  - a processor to execute the compiled program; and
  - an output device to communicate the result.
10. (Original) The system of claim 9, wherein the file creator comprises an extensible integrated development environment having a language development tool plug-in.

11. (Original) The system of claim 9, wherein the file creator comprises a program editor selected from a group of program editors comprising a Graphical User Interface program editor and a command line program editor.
12. (Original) The system of claim 9, wherein the file creator is able to create the temporary source file based upon the code segment, wherein the code segment is selected from a group of code segments comprising a code segment to parse strings, a code segment to perform binary shifting, a code segment to format files, a code segment of an Application Programming Interface, and a code segment of a library.
13. (Cancelled)
14. (Original) The system of claim 9, wherein the adaptive compiler is able to initiate compilation of the temporary source file, output a compilation error, and alter contents of the temporary source file to resolve the compilation error.
15. (Currently Amended) A ~~machine-accessible~~ computer program product comprising a computer useable medium having a computer-readable program~~containing instructions,~~ which wherein the computer-readable program when executed ~~[[by]]~~on a ~~computer~~machine, cause said ~~machine~~computer to perform operations, comprising:  
machine-rendering a source code skeleton in response to a selection of a code segment within a source file, wherein machine-rendering comprises incorporating additional code other than the code segment from the source file into the source code skeleton;  
incorporating the code segment into the source code skeleton to generate a temporary source file;  
inserting a monitoring statement into the temporary source file, the monitoring statement to provide runtime data associated with the code segment; and  
compiling the temporary source file into a compiled program to output a result based upon the monitoring statement when the temporary source file is executed.

16. (Currently Amended) The ~~machine-accessible-medium~~computer program product of claim 15, wherein the computer-readable program when executed causes the computer to perform further operations comprising:  
executing the compiled program; and  
outputting the result in response to the executing, wherein the result is based upon the monitoring statement.
17. (Cancelled)
18. (Currently Amended) The ~~machine-accessible-medium~~computer program product of claim 15, wherein compiling comprises inserting a line of code into the temporary source file to resolve a compilation error.
- 19.-20. (Cancelled)
21. (New) The method of claim 1, wherein machine-rendering further comprises modifying the additional code from the source file and inserting modified additional code into the source code skeleton.
22. (New) The method of claim 1, wherein choosing additional code from the source file outside of the selection comprises copying the additional code from the source file and pasting the additional code into the source code skeleton, the additional code comprising at least a variable definition, a variable assignment, a library reference, and an entry point.
23. (New) The system of claim 9, wherein the file creator comprises functionality to machine-render by modifying the additional code from the source file and inserting modified additional code into the source code skeleton.
24. (New) The system of claim 9, wherein the file creator comprises functionality to copy the additional code from the source file and paste the additional code into the source code skeleton, the additional code comprising at least a variable definition, a variable assignment, a library reference, and an entry point.